

19970730.qrp v00_n803.qrs.970730

>From ???@??? Thu Jul 31 07:29:47 1997
Date: Wed, 30 Jul 1997 19:03:17 EDT
Subject: QRP-L digest 803
Message-Id: <97Jul30.190429edt.34939-68712+126@fidoii.cc.Lehigh.EDU>

QRP-L Digest 803

Topics covered in this issue include:

- 1) [23955] Re: Full Wave Delta loops - information please
by Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
- 2) [23956] Re: Can Anyone Explain This? NC38S
by "Steve & Anne Ray" <sbralr@worldnet.att.net>
- 3) [23957] Re: [Fwd: Whiterook Paddles]
by wpc@west.net (John Roblin / Whiterook Products Co.)
- 4) [23958] AZ ScQRPion monthly meeting
by ruswhite@netzone.com (Russell W. White)
- 5) [23959] Embedded Research New Web Page
by "Bradley S. Mitchell" <embres@FRONTIERNET.NET>
- 6) [23960] FOUND SLT
by John Sullivan <sullivjd@sound.net>
- 7) [23961] Ft. Tuthill (medium)
by Paul Harden <pharden@aoc.nrao.edu>
- 8) [23962] Re: upgrade
by Larry Trullinger <kb0emb@swbell.net>
- 9) [23963] Finally saw CONTACT
by Paul Harden <pharden@aoc.nrao.edu>
- 10) [23964] Parts for Sierra band module
by The Boices <boice@bigfoot.com>
- 11) [23965] KC-2 alignment questions
by The Boices <boice@bigfoot.com>
- 12) [23966] Re: KC-2 alignment questions
by Kory Hamzeh <kory@avatar.com>
- 13) [23967] S units vs DB
by ka8ddz <hynde@flash.net>
- 14) [23968] Bumblebee Report from Southern Ontario (long)
by VE3JC John <jbcumming@wwdc.com>
- 15) [23969] Who Or What is a Pacificon?
by "Brian K. Short" <shortckt@primenet.com> (by way of "Brian K. Short"
<shortckt@primenet.com>)
- 16) [23970] Index Companion Schematic
by tahrens1@juno.com
- 17) [23971] Re: Finally saw CONTACT
by Alan Kaul <kaul@netcom.com>
- 18) [23972] Re: S units vs DB
by Sandy W5TVW <ebjr@worldnet.att.net>

- 19) [23973] Re: S units vs DB
by Raventhorne <jelder@ix.netcom.com>
- 20) [23974] Re: Finally saw CONTACT
by Bill Todd <bill@techline.com>
- 21) [23975] AOL Problems
by ROYGREGSON@aol.com
- 22) [23976] FS IC-502 6m QRP-Tcvt
by Markus Zimmermann <100724.2637@CompuServe.COM>
- 23) [23977] Re: S units vs DB
by Dana Myers K6JQ <myers@bigboy.West.Sun.COM>
- 24) [23978] Re: S units vs DB
by Tomek Machnik <tmachnik@micros.com.pl>
- 25) [23979] Last new Argo 556, Stealth antennas and my adventures in Tokyo
by "Michael Babineau" <babineau@nortel.ca>
- 26) [23980] Re: NVIS Communications methods
by Leon Heller <leon@lfheller.demon.co.uk>
- 27) [23981] Re: S units vs DB
by David.Reid@asml.nl (David Reid)
- 28) [23982] Email Address Change
by gaponoff@siteconnect.com (Mark Gaponoff)
- 29) [23983] What 40m Kit to Build?
by "Robert W. Shaw" <lycott@fox.nstn.ca>
- 30) [23984] New Embedded Research Web Site
by Bob Schreibmaier <k3ph@dxis.monroe.pa.us>
- 31) [23985] SWL
by "Dean Marzocca" <n2tnn@ifu.net>
- 32) [23986] Re: S units vs DB
by Ed Pacyna <pacyna@auratek.com>
- 33) [23987] Re: Morse Code on TV.
by Brian Cieslak <brianc@ams-i.com>
- 34) [23988] BumbleBee report (long)
by "Dean Marzocca" <n2tnn@ifu.net>
- 35) [23989] S units and decibels
by n4so@juno.com (charles k brown)
- 36) [23990] Re: Full Wave Delta loops
by S&P Galchutt <N0TU@webaccess.net>
- 37) [23991] Wilderness email?
by Michael Parkes <mparkes@worldnet.att.net>
- 38) [23992] Re: S units vs DB
by Sandy W5TVW <ebjr@worldnet.att.net>
- 39) [23993] Re: S units vs DB
by Jack Meadows <jackmead@getnet.com>
- 40) [23994] Re: S units vs DB
by Dave Sjolín <sjolin@swbell.net>
- 41) [23995] Re: [TenTec] Computereceivers
by John Evans - N0HJ <jae@codenet.net>
- 42) [23996] more DX!
by Steven Weber <kd1jv@moose.ncia.net>

- 43) [23997] Re: [TenTec] Computereceivers
by Bob Okas <vintage@best.com>
- 44) [23998] Re: S units vs DB
by Harvey Hetland <n6mm@earthlink.net>
- 45) [23999] Re: S units vs DB
by Ed Loranger <we6w@qsl.net>
- 46) [24000] Visit with Chuck in Los Angeles!
by Dana Myers K6JQ <myers@bigboy.West.Sun.COM>
- 47) [24001] Re: S units vs DB
by Jack Meadows <jackmead@getnet.com>
- 48) [24002] last msg this address
by rbstalker@CCGATE.HAC.COM
- 49) [24003] Pacificon?
by "Brian K. Short" <shortckt@primenet.com>
- 50) [24004] Re: Pacificon?
by Dana Myers K6JQ <myers@bigboy.West.Sun.COM>
- 51) [24005] 38S tick mod fix revisited
by Jeff Grudin <grudin@pacific.vdbs.com>
- 52) [24006] FS: TAC-1
by jsulliv@vt.edu (Jay Sullivan)
- 53) [24007] SD-20 Poles
by Bob Hightower <ki7mn@dancris.com>
- 54) [24008] Re: Pacificon?
by Paul Harden <pharden@aoc.nrao.edu>
- 55) [24009] Re: Pacificon?
by "Brian K. Short" <shortckt@primenet.com>
- 56) [24010] Re: Can anyone explain this -the Sequel
by Jeff Grudin <grudin@pacific.vdbs.com>
- 57) [24011] G4ZPY paddle
by John Moriarity <k6qq@SOCAL.WANet.com>
- 58) [24012] Re: S units vs DB (long)
by Sandy W5TVW <ebjr@worldnet.att.net>
- 59) [24013] Joe Spenser, KK5NA; Mail Bouncing
by wb2vuo@juno.com (William K Hibbert)
- 60) [24014] Re: Pacificon?
by Ed Loranger <we6w@qsl.net>
- 61) [24015] Re: S units vs DB (long)
by Ed Loranger <we6w@qsl.net>
- 62) [24016] BB reflections
by "Dean Marzocca" <n2tnn@ifu.net>
- 63) [24017] Re: G4ZPY paddle
by "Arjen Raateland, FEI/Impacts Research" <Arjen.Raateland@vyh.fi>
- 64) [24018] Chasing the Elusive Bumblebee
by Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
- 65) [24019] Re: Chasing the Elusive Bumblebee
by Ed Loranger <we6w@qsl.net>
- 66) [24020] Another "Plight of the Bumblebee"
by Dan Wolfe <n4roa@mounet.com>

- 67) [24021] Bumblebee # 47 Overcomes "Murphy" (long)
by KG0ZT <pugrad@millcomm.com>
68) [24022] 4:1 baluns and high SWRs
by Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
69) [24023] Re: Another "Plight of the Bumblebee"
by Ed Loranger <we6w@qsl.net>

Date: Tue, 29 Jul 97 16:53:00 PDT
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
To: qrp-1@Lehigh.EDU
Subject: [23955] Re: Full Wave Delta loops - information please

>From: Stephen John Farthing <stephen@stevef.demon.co.uk>
>I have a full wave loop for 40 M (7.030)... It is fed by 20M of
>300 Ohm twin feeder, via a 4 to 1 balun... performance seems to
>be indifferent and inconsistant ...

Hi Stephen, the balun is, no doubt, the problem. It is designed to see 200 ohms resistive. The configuration that you are using causes extreme mismatch problems when used as an all-band antenna system and your results are predictable.

On 40m, your antenna has a feedpoint impedance around 100 ohms giving you a 3:1 SWR on the twinlead and things work pretty well on 40m. But on 30m, for instance, the SWR on the twinlead is around 28:1 so the balun may see $300/28=10.7$ ohms and try to divide that by 4 down to 2.7 ohms, a very lossy situation for your tuner. Or with a different twinlead length, the balun may see $300*28=8400$ ohms, an absolutely impossible match for any balun.

Simply put, you need to get rid of the 4:1 balun and use a good balanced antenna tuner. Your present configuration just won't work as an all-band antenna system.

There is a way to make your antenna system work. By installing the proper values of components on the feedline side of your balun, you can obtain 200 ohms which will keep your balun happy. If you know any knowledgeable hams, get them to teach you about stub matching techniques.

73, Cecil, W6RCA, OOTC

Date: Tue, 29 Jul 1997 20:24:21 -0400
From: "Steve & Anne Ray" <sbralr@worldnet.att.net>
To: "QRP Group" <qrp-l@Lehigh.EDU>
Subject: [23956] Re: Can Anyone Explain This? NC38S
Message-ID: <19970730002441.AAA14517@pentium>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I ran into the same problem with my 38S and found that it worked fine in receive, but in transmit I could not get the signal out in 30 meters. It turned out that the problem was L2 and TC2 were acting as a VFO when in the transmit mode. This was confirmed by tuning TC2 and watching the output frequency vary around 8.5 to 9.5 MHz (your frequency may vary depending on L2). The solution came to me through the discussion of the number of the turns on L2. The solution was easy simply remove two turns from L2 and it now worked as it was suppose to. It is interesting to note I originally built the rig with the 5 W mod and took it out, naturally the problem was still there just at a lower power. Once I solved it I ran it at the low power mode then put the 5 W mod back in it worked like a champ both ways.

I had posted this a couple of months ago, but apparently with the popularity of this great little rig not everyone had seen this.

72

Steve Ray K4JPN ex K1VKW HW-101, HW-8, SWL 30-40 and NC 38S Heath
Kit fan

Date: Tue, 29 Jul 1997 17:25:14 -0800
From: wpc@west.net (John Roblin / Whiterook Products Co.)
To: qrp-l@Lehigh.EDU
Subject: [23957] Re: [Fwd: Whiterook Paddles]
Message-ID: <v01530503b0044522a415@[205.254.241.33]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Looks like I will get the little guys fixed.. may even have to build the
>Tick II into the bottom
>
>72
>Jeff, AC4HF

Jeff and QRP-L'ers:

Want to see how it's been done??!! Go to:

http://www.dtinet.or.jp/~je2cdc/english/index_eframe.html

This is Kiya's QRP page, JE2CDC, a little known QRP page from Japan that is nicely done. Kiya has skillfully put a TiCK into the MK-44!

(I could not resist posting this!!! :-) Tnx for your time.)

73, John Roblin WA6KY0
Whiterook Products Company
<http://www.west.net/~wpc/>

Date: Tue, 29 Jul 1997 18:16:22 -0700 (MST)
From: ruswhite@netzone.com (Russell W. White)
To: qrp-l@Lehigh.EDU
Subject: [23958] AZ ScQRPion monthly meeting
Message-ID: <199707300116.SAA22288@nz1.netzone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

This Saturday, August 2, 1997, being the First Saturday of the month, is the day of the next meeting of the AZ ScQRPions.
Said meeting of stated organization will unofficially (nothing in the club is official) kickoff at 10:30 AM.
Location of the meeting is Luby's Cafeteria, located on Dunlap Avenue (one of the exits for Metrocenter) just west of 19th Ave, and east of I17 (Black Canyon Freeway).

There will be Show & Tell (bring it if you've got it) talking and lunch (dutch treat).

North ^

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-----dunlap-----

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| | Luby's | |

| |

HRO

Be there, aloha

Date: Tue, 29 Jul 1997 20:45:36 -0400
 From: "Bradley S. Mitchell" <embres@FRONTIERNET.NET>
 To: <qrp-1@Lehigh.EDU>
 Subject: [23959] Embedded Research New Web Page
 Message-ID: <199707300043.UAA69874@node1.frontiernet.net>
 MIME-Version: 1.0
 Content-Type: text/plain; charset=ISO-8859-1
 Content-Transfer-Encoding: 7bit

Hello everybody,
 Please note that Embedded Research has
 a new web page address and E-Mail
 address.

All TiCK , Atomic Keyer, and Argosy Filter
 details can be referenced here now:

<http://www.frontiernet.net/~embres>

73
 Brad WB8YGG & Gary N2JGU
 Embedded Research
<http://www.frontiernet.net/~embres>
embres@frontiernet.net

Embedded Research
P.O. Box 92492
Rochester, NY
14692

Date: Tue, 29 Jul 1997 20:48:10 -0500
From: John Sullivan <sullivjd@sound.net>
To: qrp-1@Lehigh.EDU
Subject: [23960] FOUND SLT
Message-ID: <33DE9D59.34A3@sound.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I got a huge, I say HUGE, response to my SLT Wanted post. Thanks to all who replied. I would suggest that if you are looking for an SLT simply make that known here. I love this list.

72 de kg0mz

Date: Tue, 29 Jul 1997 20:02:02 -0600
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-1@Lehigh.EDU
Subject: [23961] Ft. Tuthill (medium)
Message-ID: <199707300202.UAA07282@zia.aoc.nrao.edu>

Ft. Tuthill hamfest report (somewhere between medium and long)

Went to Flagstaff and returned with Jim Duffey KK6MC and his lovely wife Ginger. Had lots of fun, plenty of QRP talk, and always enjoy Jim's company.

I have attended the Ft. Tuthill hamfest several times before, but of course this was the first for a dedicated QRP program. For those of you who have never been to Flagstaff, think about attending next year. Flagstaff is nestled on the eastern slopes of some magnificent mountains, heavily forested with very tall pines (one about every 3 feet). Just beautiful, cool, smells nice, and relaxing. Roger Hightower had a camping area reserved strictly for the QRPers in a heavily wooded area. Some stayed in their RV's/campers, others in tents. Really nice and different. It was interesting walking through the camping area and realizing you

actually knew the call letters on every license plate!

The hamfest was walking distance from the camping area, in the county fairgrounds, which are excellent facilities. The flea market stuff had a surprisingly high percentage of real ham radio stuff; the used computer stuff was at a minimum. The QRP talks were first class and enjoyed by all. The saturday evening BBQ dinner was very enjoyable socializing with not only the QRPers, but their wives and families. It was a real nice informal time. Of course we got in some good show-and-tell with our rigs, handed out some door prizes, and had every QRP in attendance spending an hour trying to figure out how to open a Motorola voice pager box someone bought for a buck or two! (Unscheduled entertainment). If you've never attended one of these QRP forum thingies, come to PacifiCon or Flagstaff next year.

But mostly want to say how enjoyable it was to finally meet many of the AZ QRPers and the AZ ScQRPions. All those guys I keep working in those contests (QRPTTF, FYBO, etc.). A bunch of great, enthusiastic QRPers. Gads, some of them drove across the state for the hamfest, then took off Sunday morning for another 100 mile jaunt for the Bumble Bee thing. Now that's dedication! It was a pleasure meeting you all, and a great job to Roger Hightower and the others who helped in organizing and pulling off a great couple of days jammed packed with QRPing.

72, Paul NA5N

Date: Tue, 29 Jul 97 21:23:43 -0500
From: Larry Trullinger <kb0emb@swbell.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23962] Re: upgrade
Message-ID: <199707300216.VAA06272@SWBELL.net>

-- [From: Larry Trullinger * EMC.Ver #2.5.02] --

Jim,

CONGRATS !!!!!

Saturday was a great day for both of us. Study that book and schedules permitting perhaps we can work /AA to /AA next saturday.

Best of luck

72/73 de kb0emb /AA

Date: Tue, 29 Jul 1997 20:28:40 -0600
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-1@Lehigh.EDU
Subject: [23963] Finally saw CONTACT
Message-ID: <199707300228.UAA07715@zia.aoc.nrao.edu>

Well, a bunch of us here at the VLA observatory FINALLY went up to Albuquerque last night after work and watched the movie CONTACT. It was the first I had seen it and it is a fairly good, entertaining movie. Of course it was also entertaining from our point of view to see how they portrayed the VLA in the movie.

A couple of "insider" observations and comments we all had:

1. Many of the scenes of the VLA control room was the real thing; the scenes from the control room where you can see the antennas just out the window was from their mock building they had built. Most internal shots without the windows was inside the real control room.
2. We were impressed with all that neat software they used to almost instantly decode the messages into video graphics, analyze the content of the signals between raster scans, etc. on the VLA computers.
WE WANT A COPY OF THAT SOFTWARE for the *real* VLA!
3. Twice in the movie, Jodie Foster went off to sulk on the edge of some deep canyon with the VLA antennas in the distance. We're all trying to figure out where that canyon is. (The real VLA is located on the Plains of San Augustin, a very flat 7000 foot ancient lake bed).
4. And what's with this sitting in the middle of the desert with her lap top and earphones? What was she plugged into? There must be an internet port and tap to the antenna IF's out there somewhere none of us knows anything about!
5. At the *real* VLA, the telescope operators needs the Directors permission to terminate the observing program of a visiting scientist. How quickly they scrubbed what they were doing when Ellie heard a few funny sounds. That's a firing offense.
6. One scene showed a bunch of VLA antennas suddenly changing their pointing. Someone in the audience said "I wonder if they really make that much noise." Answer ... YES, they do.
7. The school kids and teachers at the very end of the movie was a class from Magdalena, many of them employees children. The boy who asked Ellie the question was the son of Manual Montoya, one of our guards; one of the teachers was the wife (Sissie Bruton) whose ranch the VLA is on.
8. I have *never* seen an astronomer actually give a tour to school kids. But when the congressman and TV cameras show up ...

Just a few things to pick at from our perspective. Actually, I enjoyed the movie and found it to be a very decent sci fi story fit for the entire

family. And the beginning ham radio part was so-so.

72, Paul NA5N

```
-----NATIONAL RADIO ASTRONOMY OBSERVATORY ----- Socorro, New Mexico -----  
| VLA - Very Large Array Observatory - Worlds largest radio telescope |  
| VLBA - Very Long Baseline Array - even larger |  
------(pharden@zia.aoc.nrao.edu) --- (73 de NA5N) -----
```

Date: Tue, 29 Jul 1997 19:36:03 -0700
From: The Boices <boice@bigfoot.com>
To: qrp-1@Lehigh.EDU
Subject: [23964] Parts for Sierra band module
Message-ID: <1.5.4.32.19970730023603.00679274@popd.ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Does anyone know if Dan's or Mouser carries crystals and/or the little variable trimmer caps used in Sierra band modules?

OK. let me rephrase that: I know Mouser carries the caps, but do they have a compatible crystal? I see some listed in the right style case & tolerance, but at 20pF load, not the standard Sierra 15pF. Is this too far off, or is there enough leeway in the circuit to make this work?

Dan's has some crystals listed as 32pF, I believe. Are these too far off? He doesn't seem to list the proper trimmer caps, but I may have overlooked them.

Anyone have any experience with these parts for Sierras?

73,
mike KD0FX
Richland WA

Date: Tue, 29 Jul 1997 20:02:48 -0700
From: The Boices <boice@bigfoot.com>
To: qrp-1@Lehigh.EDU
Subject: [23965] KC-2 alignment questions

Message-ID: <1.5.4.32.19970730030248.0068d2ac@popd.ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

A few weeks ago, I built a KC-2 for my Sierra. Sweet unit! It works great but for a couple of relatively minor quirks. I'm hoping someone here will have a fix (someone usually does!).

Everything aligned just fine, with the exception of the wattmeter and frequency readout. The wattmeter works fine on the band its aligned, but then is off a few 1/10ths on other bands. I currently only have modules for 40 and 17, so I can only test it on those 2 bands. The measurement and alignment is done via an RS DMM and homebrew RF probe.

I originally aligned the frequency at the 150 kHz mark, but it was off by 2 or 2.5 kHz by the 0 kHz mark. I realigned it at the 75 kHz mark, and it is fine down at the 0 kHz mark, but is now off 2 or 2.5 kHz at the 150 kHz mark. This was done with the 40 M module, but the problem is still there on 17 M as well.

These are actually rather minor problems, especially since I'm aware of them and can compensate for them, but I would like to get them fixed.

Any suggestions?

73,
mike KDOFX
Richland WA

Date: Tue, 29 Jul 1997 20:20:48 -0700 (PDT)
From: Kory Hamzeh <kory@avatar.com>
To: The Boices <boice@bigfoot.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23966] Re: KC-2 alignment questions
Message-ID: <Pine.BSI.3.91.970729201914.13872B-100000@avatar.avatar.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 29 Jul 1997, The Boices wrote:

>

> Everything aligned just fine, with the exception of the wattmeter and
> frequency readout. The wattmeter works fine on the band its aligned, but

> then is off a few 1/10ths on other bands. I currently only have modules for
> 40 and 17, so I can only test it on those 2 bands. The measurement and
> alignment is done via an RS DMM and homebrew RF probe.
>

I think that that is an acceptable error value considering the accuracy
of the meter.

> I originally aligned the frequency at the 150 kHz mark, but it was off by 2
> or 2.5 kHz by the 0 kHz mark. I realigned it at the 75 kHz mark, and it is
> fine down at the 0 kHz mark, but is now off 2 or 2.5 kHz at the 150 kHz
> mark. This was done with the 40 M module, but the problem is still there on
> 17 M as well.

I have the same problem. I'd be interested in what you find out.

Kory
AC6RN

Date: Tue, 29 Jul 1997 23:25:35 -0700
From: ka8ddz <hynde@flash.net>
To: qrp-1@Lehigh.EDU
Subject: [23967] S units vs DB
Message-ID: <33DEDE5F.2620@flash.net>
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="-----32B011A75388"

This is a multi-part message in MIME format.

-----32B011A75388
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

While trying to explain QRP signal levels to a friend, I found myself a
little short on formulas.

As I understand an S unit is roughly 6 db. If you must double your power
to achieve 3 db of gain then you must double twice to get one S unit. Is
this right?

100 watts = S9
25 watts = S8
6.25 watts = S7 yes?

If that is true, now where do we go with "10 db over 9", if the operator cut his power in half would he now be 7 db over 9? less 3db? Please advise, I'd like some cannon fodder for some of the QRO guys in town. :
)

Tim, ka8ddz

-----32B011A75388

Content-Type: text/html; charset=us-ascii; name="ENJOY.HTM"

Content-Transfer-Encoding: 7bit

Content-Disposition: inline; filename="ENJOY.HTM"

Content-Base: "file:///C:/NETSCAPE/ENJOY.HTM"

<BASE HREF="file:///C:/NETSCAPE/ENJOY.HTM">

<BODY>

<P><I>KA8DDZ

Enjoy Amateur Radio more, build your next
radio©

QRP & Homebrew!</I></
B></P>

</BODY>

</HTML>

-----32B011A75388--

Date: Tue, 29 Jul 1997 23:56:13 -0400

From: VE3JC John <jbcumming@wwdc.com>

To: qrp-l@Lehigh.EDU

Subject: [23968] Bumblebee Report from Southern Ontario (long)

Message-ID: <33DEBB5D.5E95@wwdc.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Well the muscle aches from the 41 km solo paddle to my Bumblebee site have finally subsided, so I'll share a few thoughts regarding a very enjoyable event...

The way it started out, I suspected it might be a "weekend in hell" (a la Dale, kb0vcc/bb!). Rain and threats of thunderstorms prevented an early departure, but by 10:30 am Saturday my wife had delivered me to the Middlemiss bridge and I was on the river. Now the

Thames River meanders 163 miles through SouthWestern Ontario. I had not paddled this section before, but I had the topo maps and knew that there were four bridges between my entry point and the Conservation Area where I planned to camp. What could possibly go wrong? Three hours later (still under overcast skies) I reach the first bridge! Examining the map, my calculations tell me that I may not get to my destination until after dark. The thought of navigating the river, trying to find the conservation area, and pitching a tent in the dark, in a thunderstorm fills me with some anxiety. Two hours pass and I make the second bridge. Bends in the river seem a bit different than on the map - now I'm confused and anxious. Wishing I'd brought more drinking water, in case I have to set up camp before the conservation area. Did I mention the hordes of deer flies that were making it impossible to maintain steady paddling?

To make a long story not quite as long ... I'm delighted to reach the third bridge in very quick time, and ecstatic (but still very confused!) when at 6:30 pm my destination comes into view. What happened to the fourth bridge??? Apparently one of the bridges which still shows on the topo map was removed some time ago - they must have done a good job, because I don't recall seeing any remnants of the footings! This missing bridge really mixed me up and made me worry unnecessarily. However, I did enjoy the countryside, and spotted 3 deer, many hawks and blue herons, and one bird species that I have never seen before.

So I haul my gear and the canoe up to the camping area, get my tent pitched, and brew a hot cup of coffee on the single burner stove. I am the only person in the camping area - anticipating a good night's sleep in complete solitude, and a pleasant morning raising antennas.

Then I see a familiar van coming down the access road... It's my brother Peter and his family, plus my brother Stephen from the North West Territory (who had just flown in that morning). They've decided to camp and share in my bumblebee expedition. We have a wonderful campfire under what is now a clear star-lit sky.

After a great breakfast Sunday morning, Stephen helps me with the wrist rocket, and climbs up a tree or two, until we finally have the 450 ohm ladder line-fed dipole up at a respectable height (about 35') oriented east-west. The qrp+ and tuner are ready to go - signals aren't all that strong on 20, and 15 seems dead...

If I had not made a single contact, it would still have been a great weekend. But I did manage 46 QSO's, mainly on 20 but a few on 15 and 40. Fellow bumblebees were scarce - only worked 5 (including Dan N4ROA on both 20 and 40). Guess that's a whopping 276 points (is there a multiplier for insect bites?)

Thanks to ARS for organizing this great event, and to those who shared their adventures on qrp-l.

72 / 73,
John

VE3JC - JOHN CUMMING
192 WELLINGTON ST. DELAWARE, ON CANADA, N0L 1E0

Date: Wed, 30 Jul 1997 04:02:27 +0100
From: "Brian K. Short" <shortckt@primenet.com> (by way of "Brian K. Short" <shortckt@primenet.com>)
To: qrp-l@Lehigh.Edu
Subject: [23969] Who Or What is a Pacificon?
Message-ID: <3.0.1.32.19970730040227.0070e138@mailhost.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRPers, Badgers, Crispy Critters, Space Cadets, et al...

I am not familiar with Pacificon. Is it a general interest event or just QRP? Is it a "hamfest" or "flea market" or a "seminar" or something else or all of the above? I did catch the date in October.

Can someone provide an executive summary?

Brian Short k7on@qsl.net <http://www.qsl.net/k7on>
1994 E Laguna Dr Tempe, Az 85282 (602)839-3484

Date: Wed, 30 Jul 1997 00:19:56 EDT
From: tahrens1@juno.com
To: qrp-l@lehigh.edu
Subject: [23970] Index Companion Schematic
Message-ID: <19970729.232042.4919.0.tahrens1@juno.com>

Does anyone have the schematics for the companion? Figured if I couldn't find one, I'd try & build it!

Hey, I built a garage out of 2 by 4s & such, so certainly I can do electronics stuff.

hehe

seriously, if anyone has access to a FAX

machine, and wouldn't mind sending it, my
number here is 512-891-2724.

Thanks a bunch

Tim W5FN

p.s. How do I get a Bumble Bee number?

Date: Tue, 29 Jul 1997 21:57:04 -0700 (PDT)
From: Alan Kaul <kaul@netcom.com>
To: Paul Harden <pharden@aoc.nrao.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [23971] Re: Finally saw CONTACT
Message-ID: <Pine.3.89.9707292131.A21642-01000000@netcom21>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Tnx Paul for the truth in movies report. People been telling me for
years you just can't trust the media!
73/72 de alan

[<Alan Kaul, W6RCL>] kaul@netcom.com

Date: Wed, 30 Jul 1997 05:45:07 +0000
From: Sandy W5TVW <ebjr@worldnet.att.net>
To: hynde@flash.net, qrp-l@lehigh.edu
Subject: [23972] Re: S units vs DB
Message-ID: <19970730054505.AAA26352@LOCALNAME>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:25 AM 7/30/97 +0000, you wrote:

>While trying to explain QRP signal levels to a friend, I found myself a
>little short on formulas.

>

>As I understand an S unit is roughly 6 db. If you must double your power
>to acheive 3 db of gain then you must double twice to get one S unit. Is

>this right?
>
>100 watts = S9
>25 watts = S8
>6.25 watts = S7 yes?
>
>If that is true, now where do we go with "10 db over 9", if the operator
>cut his power in half would he now be 7 db over 9? less 3db? Please
>advise, I'd like some cannon fodder for some of the QRO guys in town. :
>
>
>Tim, ka8ddz

Here one must be careful! The "S" meter is calibrated to indicate 6db
VOLTAGE change per "S" unit. A 6 db POWER change is not the same!

The rule of thumb is:

For a 3 db power increase the power is doubled.

For a 6 db VOLTAGE increase the VOLTAGE is doubled.

The inverse is true if the power/voltage is halved.

Hope this helps clear this up.

73,

Date: Wed, 30 Jul 1997 00:47:39 -0500 (CDT)
From: Raventhorne <jelder@ix.netcom.com>
To: hynde@flash.net, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.Edu>
Subject: [23973] Re: S units vs DB
Message-ID: <2.2.16.19970729210638.2fe7d770@popd.ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:25 PM 7/29/1997 -0700, ka8ddz wrote:

>If that is true, now where do we go with "10 db over 9", if the operator
>cut his power in half would he now be 7 db over 9? less 3db? Please
>advise, I'd like some cannon fodder for some of the QRO guys in town. :

Yes!

@~~~

@ John Elder, Ko6TS

@ PHROG (Pagan Ham Radio Operators' Guild)

@ Box 232, El Segundo, CA 90245

@ Does a psychologist eat his Jung? How does his inner child feel about this?

Date: Tue, 29 Jul 1997 22:45:12 -0700
From: Bill Todd <bill@techline.com>
To: qrp-l@Lehigh.EDU
Subject: [23974] Re: Finally saw CONTACT
Message-ID: <1.5.4.32.19970730054512.006d646c@mail.techline.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Subject: Re: Finally saw CONTACT

>

> Actually, I enjoyed the movie and found it to be a very decent sci fi story fit for the entire family. And the beginning ham radio part was so-so.

>

>Hi Paul - Thanks for helping the QRP-L walk through the process of film making to the finished product. It was interesting to hear (back last Fall?) when you first mentioned the movie crew shooting at your facility, up until your personal review of the movie.

>

>You know - most movie gowers have no idea that what they see on the screen is NOT real life. It is, instead the Producers' and Directors' view of the world, which is often quite a bit different than those of Mom and Pop U.S.A. (hi).

>

>CUL, Bill-N7MFB

>

<http://www.techline.com/~bill>

Date: Wed, 30 Jul 1997 01:54:58 -0400 (EDT)
From: ROYGREGSON@aol.com
To: qrp-l@Lehigh.EDU
Subject: [23975] AOL Problems
Message-ID: <970730015457_-690806883@emout03.mail.aol.com>

Hi Gang.....Me again with good and bad news about the AOL Flash mail problem. Finally talked to a real person instead of a computer, explained the problem, was put on hold for about 10 mins. When the tech came back, I was told that it was not a problem with my computer or yours, but an AOL problem. The bad news is that although they know of the problem and are working on it, they have not found the fix yet !
So keep trying !
Thanks for all the support !
72's/73's Roy

Date: 30 Jul 97 02:01:59 EDT
From: Markus Zimmermann <100724.2637@CompuServe.COM>
To: qrp-l <qrp-l@Lehigh.Edu>
Subject: [23976] FS IC-502 6m QRP-Tcvt
Message-ID: <970730060158_100724.2637_EHQ48-2@CompuServe.COM>

Hello 6m QRPer

I have an IC-502 6m (SSB and CW both 3W) transceiver for sale. In excellent condition,
no marks, scratches, or mods. With manual, mic and power cord.

Please make me an offer or let me know if you have something to swap (TenTec products preferred).

If interested or have questions drop me a e-mail.

73/72 Markus
HB9JNH

Date: Tue, 29 Jul 1997 23:09:18 -0700 (PDT)
From: Dana Myers K6JQ <myers@bigboy.West.Sun.COM>
To: ebjr@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [23977] Re: S units vs DB
Message-ID: <Roam.SIMC.2.0.6.870242958.23023.myers@bigboy>
Content-Type: text

Sandy wrote:

> Here one must be careful! The "S" meter is calibrated to indicate
> 6db VOLTAGE change per "S" unit. A 6 db POWER change is not the same!
> The rule of thumb is:
> For a 3 db power increase the power is doubled.
> For a 6 db VOLTAGE increase the VOLTAGE is doubled.
>
> The inverse is true if the power/voltage is halved.
>
> Hope this helps clear this up.

Power is related to voltage and resistance as:

$$P = E^2/R$$

Assuming that the R (real part of impedance ;-) is fixed, a doubling of voltage results in a quadrupling of power. That's why dB is defined as:

$$\begin{aligned} \text{dB} &= 10 * \log_{10}(P1 / P2) \\ \text{dB} &= 20 * \log_{10}(V1 / V2) \\ \text{dB} &= 20 * \log_{10}(I1 / I2) \end{aligned}$$

I believe using terms like "voltage dB" and "power dB" is incorrect and confusing. dB is a ratio of powers, full stop. Whether you measure the power directly or measure the voltage or current in a fixed impedance system, you're really measuring power. In a system where the input impedance differs from the output impedance, you can't just take the ratio of the voltage and validly express it as dB, though you may express it as a simple ratio (for example, $A_v = 100$)

That's my two cents. If someone cares, I'll say something about metric Watts and Imperial Watts. ;-)

Dana K6JQ
Dana@Source.Net

Date: Wed, 30 Jul 1997 08:32:03 +0200 (MET DST)
From: Tomek Machnik <tmachnik@micros.com.pl>
To: Dana Myers K6JQ <myers@bigboy.West.Sun.COM>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [23978] Re: S units vs DB
Message-ID: <Pine.LNX.3.95L01at.970730082715.13919A-100000@micros.micros.com.pl>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 29 Jul 1997, Dana Myers K6JQ wrote:

> That's my two cents. If someone cares, I'll say something about
> metric Watts and Imperial Watts. ;-)

Please do...

Maybe my (metric) QRP is an Imperial QRO... :-)

Tomek SQ9DJQ

```
#####  
#               Tomasz Machnik               #  
#               Purchasing Manager             #  
#   MICROS s.c. Electronic Components Imp/Exp   #  
#               Krakow, Poland                 #  
#####
```

..... HAM: SQ9DJQ

Date: 29 Jul 1997 20:59 EDT
From: "Michael Babineau" <babineau@nortel.ca>
To: qrp-l@Lehigh.EDU
Subject: [23979] Last new Argo 556, Stealth antennas and my adventures in Tokyo
Message-ID: <199707300638.CAA56108@nss2.CC.Lehigh.EDU>

Hi :

I just wanted to take this opportunity to again thank all of you who responded to my queries regarding the Ten-Tec Scout about a month ago. Based on the advice I received I went with the Argo 556 (Cubby) instead of the Scout. I'm happy to say that I am providing a good home for what I believe to be the last "new" Argo 556 to be sold by Ten-Tec (the 556 is now discontinued).

I received my new rig just days before Field day and had plans to do some operating from a nearby park. I only managed to find time to make one QRP phone contact on 20M from home as I had to pack for a business trip to Japan the next day.

Speaking of which, this was my second trip to Tokyo this year. This time I managed to find time to make it to Akihabara (the electronics district)

in search of radio-goodies.

In particular I was looking for QRP goodies. A while back I bought a Mizuho PICO MX-18 HF QRP HT from Ramsey (clearout of the remaining stock bought when JCOM went under). I didn't get the 17m telescopic antenna with the radio so I thought that there might be a chance to track one down in Japan. Well after about 2.5 hours wandering around in "electronic-heaven" in 38C heat (sort of like Dayton 1996 only more crowded) I found a store specializing in Ham gear that not only sold Mizuho rigs but also had a selection of accessories including antennas.

To make a long story short, after finally managing to make the non-english speaking clerk understand what I wanted, he rummaged through a pile of Mizuho antennas only to find that the only band that they didn't have in stock was 17m. At that point I did the only reasonable thing. I gave up. I got back on the train to my airconditioned hotel, had a beer and watched sumo-wrestling on TV.

For any of you that might be interested the price for the Mizuho Pico MX series radios was 34,800 yen which is pretty darn close to \$348 US. I know that these are favourites of the B.M.H.A guys, too bad that there is no one currently importing them into the US. Also worth noting, I saw some reasonable prices on VHF and UHF handies and actually considered buying a dual-bander but the models I saw were all domestic (JA) ones and I believe that the Japanese 2m and 440MHZ allocations differ somewhat from North America. So I decided to pass since I wasn't sure what I would be getting myself into.

On the antenna front, I recently did some upgrades on my stealth antenna which seem to have paid off. I, like many, am restricted to no antennas by a condo covenant.

I decided to be a little more brave and actually run some twin-lead out the window to feed my antenna. This has allowed me to now have a stealth inverted-L with a couple of radials rather than just an end-fed random wire (mostly vertical) with only one 30ft counterpoise running around the inside of the shack. I have actually had very good luck with green 26AWG magnet wire using the W6TOY direct launch method (see QST article by Bruce W6TOY/3 "A Practical Stealth Antenna" July 1995).

My random wire lasted two Ottawa winters going out the window about 15 ft and up the side of a 25ft spruce tree. Finally it started to get a bit hard to match with the tuner so I decided to replace it with the inverted L. My new antenna loads quite nicely on 40, 30 and 20. It almost loads on 80 as well, but I can't quite get the SWR below about 2.2:1. Hopefully I can find some more time in the future to actually get on the air. I also hope to make some future improvements to the ground system by burying some more radials in the lawn using a lawn edger.

Take care

Michael
VE3WMB

Date: Wed, 30 Jul 1997 05:48:10 +0100
From: Leon Heller <leon@lfheller.demon.co.uk>
To: we6w@qsl.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.Edu>
Subject: [23980] Re: NVIS Communications methods
Message-ID: <N503YAAKes3zEwP7@lfheller.demon.co.uk>
MIME-Version: 1.0

In message <33DE4F02.6663@qsl.net>, Ed Loranger <we6w@qsl.net> writes
>Jim and QRP-1 group:

>
>Jim, W7LS mentioned some experiments on
>Near Vertical Incident Sky-wave communications.
>
>Since Jim and I have been working on a pixie to pixie
>communications feat I thought this was interesting.
>
>You all might want to check out a quick primer on the
>web that I found.
>
><http://www.gordon.army.mil/acd/tcs/hf/2418xtr2.htm>
>
>Cool stuff. Also, I mentioned a vertical half
>rhombic privately to some of the members and found
>information on it at the same site under
>this area:
>http://www.gordon.army.mil/acd/tcs/hf/1_2romb.HTM

NVIS is used quite a lot by the British army, where the terrain is
difficult, as in Norway, where they have to communicate between valleys.

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>
Tel: +44 (0) 118 947 1424
See <http://www.lfheller.demon.co.uk/rcm.htm> for details of a
low-cost reconfigurable computing module using the XC6216 FPGA

Date: Wed, 30 Jul 1997 08:33:37 +0200
From: David.Reid@asml.nl (David Reid)
To: myers@bigboy.west.sun.com
Cc: qrp-1@Lehigh.EDU
Subject: [23981] Re: S units vs DB
Message-ID: <199707300633.IAA08662@wspub002.asml.nl>

>That's my two cents. If someone cares, I'll say something about
>metric Watts and Imperial Watts. ;-)

>Dana K6JQ

I don't know about metric and imperial watts - but I'm sure we all know what a
japanese kilowatt is....

You know, the Japanese ATU that 'handles a kilowatt continuously' when in real
life anything over 150Watts and it arcs out... or the kilowatt amplifier that
the RF output is slightly over 300 watts... (boy, is that inefficient!)

I have seen many examples of Japanese Watts/kilowatts... even own some now -
but you always have to take the conversion factor into account. HI.

73 es keep smiling.

Dave
PA3HBB / G0BZF

Date: Wed, 30 Jul 1997 02:05:19 -0700
From: gaponoff@siteconnect.com (Mark Gaponoff)
To: qrp-1@Lehigh.EDU, nwqrp@scn.org
Subject: [23982] Email Address Change
Message-ID: <103020905b004b2db26d7@[206.253.197.215]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

Hello there all you QRP-ers!

Please note that our email address has changed. The old address=20
will not forward mail and is only good for a few more days.

Our old address...

gaponoff@macconnect.com
has been changed to...
gaponoff@siteconnect.com

Please update your address book. Thank you.

--Mark & Ann

-- Mark Gaponoff (gaponoff@siteconnect.com) 73's de KJ7EM.

"Life has meaning, but a poor signal-to-noise ratio."

-- Ann Gaponoff (gaponoff@siteconnect.com)

"Si hoc legere scis, nimium eruditionis habes."

Date: Wed, 30 Jul 1997 07:19:44 -0400
From: "Robert W. Shaw" <lycott@fox.nstn.ca>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [23983] What 40m Kit to Build?
Message-ID: <3.0.1.32.19970730071944.007bf390@fox.nstn.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am new to qrp but a fairly experienced builder. I am considering building a Ten-Tec 40 m qrp transceiver, or the Oak Hills OHR-100. The prices are about the same with the Ten-Tec lower receive current, and the OHR slightly broader band range and power. Are there any recommendations between these two, or others I should consider?

Thank you for any help in choosing.

Bob Shaw, VE3SUY

Date: Wed, 30 Jul 1997 08:37:00 -0400 (EDT)
From: Bob Schreibmaier <k3ph@dxis.monroe.pa.us>
To: qrp-l@Lehigh.Edu
Subject: [23984] New Embedded Research Web Site
Message-ID: <199707301237.IAA21713@dxis.monroe.pa.us>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

FYI,

Embedded Research has a new web site. The URL is:

<http://www.frontiernet.net/~embres>

72,
Bob

--

```
+-----+
| Bob Schreibermaier K3PH | E-mail: k3ph@dxis.monroe.pa.us |
| Kresgeville, PA 18333 | ICBM: 40o55'N 75o30'W |
+-----+
```

Date: Wed, 30 Jul 1997 08:49:05 -0400
From: "Dean Marzocca" <n2tnn@ifu.net>
To: "QRP-L" <qrp-l@Lehigh.Edu>
Subject: [23985] SWL
Message-ID: <199707301250.IAA05491@ifu.ifu.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi folks,

Just a quick question about QSLing.

I just received that neat little envelope from the bureau. Many nice cards from 1995, talk about quick turn around!! Well, one card is from a "SWL Station OM3-28612". I checked the log and he has the correct information concerning the QSO I had with the GB station. How do I respond to this card? Do I send a QSL made out to him or what do I put in the comments section?

All comments will be appreciated.

72/73 Dean N2TNN NJ
n2tnn@ifu.net

Date: Wed, 30 Jul 1997 09:22:27 -0400
From: Ed Pacyna <pacyna@auratek.com>
To: qrp-l@Lehigh.Edu
Subject: [23986] Re: S units vs DB

Message-ID: <3.0.16.19970730092226.256ff134@dingle.auratek.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 11:09 PM 7/29/97 -0700, Dana Myers K6JQ wrote:

>dB is a ratio of powers, full stop.

The decibel or dB is a unit of measure. What it measures is the minimum change in level that the human ear can discern.

Additionally a S unit is defined as 6dB (Note: and per the ARRL handbook, S9 is defined as an extremely strong signal).

All other conditions being equal:

If a 1000 watt signal perceived as S9, a 1 watt signal would be S4 (30dB or 5 S units less).

Or a 1 watt signal would be 20 times less discernible than a 100 watt signal (20dB).

Ed

W1AAZ

Date: Wed, 30 Jul 1997 08:39:18 -0500

From: Brian Cieslak <brianc@ams-i.com>

To: "'QRP-L'" <qrp-l@Lehigh.EDU>

Subject: [23987] Re: Morse Code on TV.

Message-ID: <c=US%a=%p=Adaptive_Micro_S%l=AMS-I_SERVER_1-970730133918Z-507@ams-i-server-1.ams-i.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

>>Afterward caught the end of 'The Simpsons'

>>Cartoon. Homer and MR. Burns are stranded

>>in a Cabin after a winter snow avalanche.

>>

>>Mr. burns open up a Bureau drawer and comments

>>about the Trusty Morse code key in there --

>>to save the day.

>>

>This is not the first time that The Simpsons have featured the Code.

>Here in the UK the BBC showed an early episode in which Bart was sent to

>France and in return Homer and Marge get an Albanian boy in return. In

>reality he was a spy who used the code to communicate with his masters.

And don't forget the episode where marge's sister thelma tells of how she spends here lonely hours on her ham radio and then they show her station..It was in the episode where she wanted to start a family.

Brian AE9K

Date: Wed, 30 Jul 1997 09:51:58 -0400
From: "Dean Marzocca" <n2tnn@ifu.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [23988] BumbleBee report (long)
Message-ID: <199707301353.JAA06832@ifu.ifu.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hey gang,

What a great event! I waas looking forward to this for quite sometime because it was a chance for dedicated radio time. The day started out with getting the boat loaded and all the antennas on-board. I had tested out a new vertical with wound rubber radials the day before. The Hustler vertical was mounted on top of this new mast and all checked out just fine with my AEA ant analyzer. Ready to go.

With my entire family aboard with heade south on the Metedeconk River, into Barnegat Bay and the through the Point Pleasant Canal, which is about 2 miles long. I then entered the Manasquan River which is the direct link with the Atlantic Ocean about 1 mile to the east. We turned west and slowly floated around the back side of Treasure Island. The island is named after the book, or should I say that John Lewis ??? wrote the book after viewing the island for the main land. This location was selected for several reasons. The trees will block the wind, the water is calm from waves generated by passing boat traffic and the most important one is that the kids had a place to go and play for a few hours. The water is only 3 feet deep, about 75 degrees F and there is a very large oak tree which supports a long swinging rope. Only problem is that the rope swings out over the sand and not the water. maybe back in the pirate days it was out over the water. All I know is that they were gone for about two hours. The vultures came back on a feeding frenzy and they left me a few crumbs.

The vertical went up quickly and I was all set to go about 5 minutes before 1pm. I brought along the QRP+ and companion. I'm starting to get a bit more

relaxed with this rig. Usually it is under lock and key but I brought it along for FD, which is the first time it was out of the shack, and now on the boat. I just wanted the multi band coverage. The only problem was about 3pm my son comes back to the boat and says I should look at the antenna (sad look on his face). Now, you have to visualise the set-up, one vhf marine antenna, one loran antenna, one 10 meter whip and the 4 ft vertical with 3 radials and a 40 meter vertical on top of that. All are mounted on the hand rails on the hard top. So I jump up and look over the side and I see the vertical swing by and then it's gone. With each roll with the waves I see the antenna again. Well, I guess what happened is that the wind picked up considerably (concentration blocked out all extraneous environmental inputs (well not exactly, you should have seen the crew on the boat 20 ft from me!) and other conditions) and the waves started rolling. The weight of the antenna started the swing and it looked like one of them time keepers you put on a piano, only this was about 20 feet tall. There were times that the vertical was a horizontal. Talk about NVIS.

I had to go up and dismantled the antenna system and then re-tighten all the connectors. Guys will be in order next time around. I never thought about this sort of problem because it was tested at the dock where the boat was guyed between four poles in the water, no shake here! I finished with a single band vertical and changed the radials when needed

So now the details.

QRP+ and Companion tuner, battery

4 watts output into antenna described above

total travel distance 8 miles elapsed time took 45 minutes

Number QSO 26

40 meters 19

20 meters 6

10 meters 1

BB contacts 7

Score $(19 + 14) \times (7 \times 3) = 693$ points

WA1QVM/BB 579	MA	JOEL
WJ8E 589	MI	WALT
K7SZ/BB 559	PA	RICH
AD4MZ 569	NC	BOB
N2TO 599	PA	KEVIN
KB2JE 579	NJ	WALT
N2VPK/BB 559	NY	MARK
N4UY 559	VA	JAKE
K3WWP 559	PA	JOHN
N4TN 579	TN	DON
W2WWP 569	NC	CLARK
KA3WTF 599	PA	FRAN
WD8RIF/BB 479	WV	RIC

W2KJ	559	NC	JOE
N4ROA/BB	439	VA	DAN
KK1S	599	CT	NON
W3TS	599	PA	MIKE
KB8OF0	589	OH	TOM
KE4IZH	599	VA	RICK
N8EAG	589	WV	ARCH
N3LAZ	449	PA	ON
W4Q0	559	GA	JIM
W4DEC	589	AL	LARRY
N4TN	589	TN	DON
W4Q0/BB	529	GA	JIM
K4KJP	539	FL	TERRY

Thanks for the fun and hope to do it again next year.

72/73 Dean N2TNN NJ
n2tnn@ifu.net

Date: Wed, 30 Jul 1997 09:52:33 EDT
From: n4so@juno.com (charles k brown)
To: qrp-1@Lehigh.Edu
Subject: [23989] S units and decibels
Message-ID: <19970729.205059.7527.4.n4so@juno.com>

An example of 10 db power steps is the NCDXF beacon network on 14.100 and other bands.
You can hear the 10 db power steps at 100 watts, 10, 1 and then .1 watt.
I also have the saved text file on the NCDXF beacon system.

Ken Brown, N4S0
QTH nr Mobile, AL/ EM50tk
qrp-1 #622
n4so@juno.com

Date: Wed, 30 Jul 1997 07:45:20 -0700
From: S&P Galchutt <N0TU@webaccess.net>
To: qrp-1@Lehigh.Edu
Subject: [23990] Re: Full Wave Delta loops

Message-ID: <33DF5380.7181@webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Cecil,

Maybe this explains my experience with a my 40m fullwave delta loop fed w/300 ohm TL. I could not get a decent sig report on 30m. I had thought... Hey, I could use the 40m loop on higher bands with great success by feeding it w/300 or 450 open wire... I'll get around those nasty high VSWRS with open wire "FORGET those lose baluns"..YES!...works with CFDs. But not so for me(I thought)! I'd call other stations and "sri ob ur sig too weak for cpy cul/73...rst 229 etc so I didn't bother calling a single CQ...thought maybe my tuner couldn't handle the impedance? Tried a different ATU - same result ...meters said 1:1 - Tx was happy. (30m conditions were lousy too!!) So, I went to a solo loop for 30m and I'm now getting the mucho better reports (30 xdtions better too!!!hmmm)

Also, I discovered..the 40m delta seemed to work better by feeding the top corner (vertically polarized) ...top is 40' from ground- bottom is about 15' and same is seemed true for the 30m loop...maybe if I had these loops up at a 100' the horizontal polarization would play better? Anyway I'm having fun just experimenting w/'em.

I've also noted that one can't make assumptions about an antennas's performance based on a few contacts due to the ever changing band conditions. I rotated the feed point up to top corner on the 40m loop and band seemed dead...changed back to feeding at bottom and heard lots of good strong locals!(500-1000 miles out) How ever, over time I've found I 've had more QSOs and get better reports w/the feedpoint at the top corner or higher off the ground!!! hmmmm ...The old 'get the high current point as high as possibile'????(maybe)

But I do like the quietness of the loop antennas. It's thunder storm season here in Colorado and the loop helps minimize the noise factor although when a strom is nearby I'm usually QRT anyway w/ants grounded!

There's nothing quite like spending the afternoon fighting with those tangled wires, wrist rocket, and bugs only to sit down in front of ur favorite QRP rig and connect to that "new" antenna you've just put up and take a spin across the band listening to the signals pop out.. YES!. Success can be spelled many different ways.

Thank you Cecil for your posts! Always enjoy learning more about how to demystify those mysteriuos antlers!!

Steve/N0TU

Cecil A Moore wrote:

> On 40m, your antenna has a feedpoint impedance around 100 ohms
> giving you a 3:1 SWR on the twinlead and things work pretty
> well on 40m. But on 30m, for instance, the SWR on the twinlead
> is around 28:1 so the balun may see $300/28=10.7$ ohms and try
> to divide that by 4 down to 2.7 ohms, a very lossy situation
> for your tuner. Or with a different twinlead length, the balun
> may see $300*28=8400$ ohms, an absolutely impossible match for
> any balun.

Date: Wed, 30 Jul 1997 07:16:37 -0800
From: Michael Parkes <mparkes@worldnet.att.net>
To: qrp-1@Lehigh.EDU
Subject: [23991] Wilderness email?
Message-ID: <33DF5AD5.49E@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Does Wilderness Radio have an email address?

--
Mike AB7RU
26725 E Moffat Rd
Newman Lake, WA 99025

Ex: KA4GCB (1981), N4ESZ, KS4DA

Date: Wed, 30 Jul 1997 14:13:46 +0000
From: Sandy W5TVW <ebjr@worldnet.att.net>
To: Dana Myers K6JQ <myers@bigboy.West.Sun.COM>, qrp-1@Lehigh.EDU
Subject: [23992] Re: S units vs DB
Message-ID: <19970730141344.AAA29820@LOCALNAME>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:09 AM 7/30/97 +0000, you wrote:

>
>I believe using terms like "voltage dB" and "power dB" is incorrect and
>confusing. dB is a ratio of powers, full stop. Whether you measure the
>power directly or measure the voltage or current in a fixed impedance
>system, you're really measuring power. In a system where the input
>impedance differs from the output impedance, you can't just take the
>ratio of the voltage and validly express it as dB, though you may express
>it as a simple ratio (for example, $A_v = 100$)
>
>That's my two cents. If someone cares, I'll say something about
>metric Watts and Imperial Watts. ;-)
>
>Dana K6JQ
>

It's done all the time. Measurements in some circles are frequently
stated in
dBV. and more commonly in dbm. or dbw. (To differentiate between a voltage
or power
'reference' level)

Any of the better engineering texts refer to db. power gains and db.
voltage gains
and the calculation thereof.

It would be unweildy to refer to 'db power gain' for instance in a
receiver RF or
IF stage, where "voltage gain" is usually calculated, in decibels if desired.

This has nothing to do with whatever unit you are using to measure
power or
electromotive force, it is a ratio of input to output or vice versa.
Unless, of course,
you state what the 'zero db. reference level' is in microvolts, millivolts,
milliwatts, watts etc.

The point is that we musn't mix our apples (volts) and oranges
(watts) whilst
referring to "db ratios" or confusion and errors will result.

Please don't regard this as a 'flame'! This 'db' power/voltage
thing has been a
source of confusion for years.

73,

Date: Wed, 30 Jul 1997 07:31:01 -0700 (MST)
From: Jack Meadows <jackmead@getnet.com>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>

Subject: [23993] Re: S units vs DB
Message-ID: <Pine.BSI.3.93.970730070206.23276A-1000000@gn2.getnet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi gang, this is always an area of confusion because of our terminology. Just keep in mind that dB is an expresion of POWER ratio, and since Power is proportional to the voltage squared, the power ratio of voltages in dB is $20 \log V1/V2$ instead of $10 \log P1/P2$.

>
> Here one must be careful! The "S" meter is calibrated to indicate 6db
> VOLTAGE change per "S" unit. A 6 db POWER change is not the same!
> The rule of thumb is:
> For a 3 db power increase the power is doubled.
> For a 6 db VOLTAGE increase the VOLTAGE is doubled.

This should say, For a 6 db POWER increase the VOLTAGE is doubled.

I don't know why this is, but in my experience, good s-meters always seem to read about 4dB per s unit. Oh well, makes for a better signal report, Ha!

Best regards,
Jack W7QQQ

>
> The inverse is true if the power/voltage is halved.
>
> Hope this helps clear this up.
>
> 73,
>
>
>

Date: Wed, 30 Jul 1997 09:37:39 -0500
From: Dave Sjolin <sjolin@swbell.net>
To: qrp-1@Lehigh.EDU, hynde@flash.net
Subject: [23994] Re: S units vs DB
Message-ID: <33DF51B3.2E0A@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

ka8ddz wrote:

 $\succ$

Yes but it will probably be hard to read an actual 7 db over 9 because qsb will often be larger than the 3 db. It also depends on the S-meter. You will rarely find an S-meter that requires more than four or five db per S-unit, rather than the classic six db.

73 de Dave, NOIT

```
> Yeah, and what about us folks who use Macs.
```

Yeah, and what about my Timex-Sinclair ???

John A. Evans	Chief Systems Administrator
Office: (719) 528-1800 x164	Titan Software Systems
Fax: (719) 528-1888	1115 Elkton Drive, Suite 200
email: jaevans@cos.cst.titan.com	Colorado Springs, CO 80907-3535

Norcal #262 QRP-L #219 QRP-ARCI #8303 NE-QRP #213 CQC #045
CQrp #15 NJ-QRP #50 AK-QRP #52 NW-QRP #454 FISTS #3184
Personal Web Page: <http://www.geocities.com/capecanaveral/9773/>

Date: Wed, 30 Jul 1997 11:04:19
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [23996] more DX!
Message-ID: <3.0.1.16.19970730110419.25af76c0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I heard a F5 call CQ a couple of times on 40 last night with out any takers. He had a good signal, so what the heck, gave him a call. Got a 518 from him, running 5 watts into 25 ft high dipole. Been hearing a lot of strong European stations on 40 this last week. Even the letter becons out of Russia. (P)

Lets see, 2 down, 98 to go....

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Wed, 30 Jul 1997 09:32:19 -0700 (PDT)
From: Bob Okas <vintage@best.com>
To: John Evans - N0HJ <jaevans@codenet.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.Edu>
Subject: [23997] Re: [TenTec] Computereceivers
Message-ID: <Pine.SGI.3.95.970730092949.26256C-100000@shellx.best.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 30 Jul 1997, John Evans - N0HJ wrote:

> > Yeah, and what about us folks who use Macs.
>
> Yeah, and what about my Timex-Sinclair ???
>

Shucks, you guys have it too easy! Ever try toggling in the the operating software on an Altair 8800 front panel?

Bob - W3CD
(Couldn't afford a paper-tape reader back then)

Date: Wed, 30 Jul 1997 16:36:17 -0700
From: Harvey Hetland <n6mm@earthlink.net>
To: QRP-L@Lehigh.EDU
Subject: [23998] Re: S units vs DB
Message-ID: <33DFCFF1.14A0@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

There is no difference between a voltage based dB and a power based dB, and this can be shown mathematically. To use W5TVW's example:

The rule of thumb is:
For a 3 db power increase the power is doubled.
For a 6 db VOLTAGE increase the VOLTAGE is doubled.

Note that when the voltage is doubled the power will be increased four-fold, due to $P = E^2/R$. This is in agreement with $6\text{dB} = 3\text{dB} + 3\text{dB}$. When subjected to two 3 dB increases the net result is a four-fold increase in power.

The "two" formulas used for decibel calculations are:

$$\#dB = 10 \log (P1/P0)$$

and

$$\#dB = 20 \log (E1/E0)$$

The decibel is properly defined in terms of the power ratio. The formula in terms of voltage ratio is derived from the power formula by substituting $P1 = E1^2/R$ for $P1$ and $P0 = E0^2/R$ for $P0$ and making the assumption that the resistance is the same for the two voltage measurements, which is not always true. Since $\log (N)^2 = 2 \log N$, it follows that:

$$10 \log (P1/P0) = 20 \log (E1/E0)$$

Therefore, the statement:

"The "S" meter is calibrated to indicate 6db VOLTAGE change per "S" unit. A 6 db POWER change is not the same!"

is incorrect. The Bel (or decibel as we use it) is defined in terms of

power. In the words of K6JQ, "FULL STOP".

73, Harvey, N6MM.

Date: Wed, 30 Jul 1997 09:54:52 -0700
From: Ed Loranger <we6w@qsl.net>
To: jackmead@getnet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23999] Re: S units vs DB
Message-ID: <33DF71DC.46E1@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Jack Meadows wrote:

>
> Hi gang, this is always an area of confusion because of our terminology.
> Just keep in mind that dB is an expresion of POWER ratio, and since
> Power is proportional to the voltage squared, the power ratio of voltages
> in dB is 20 log V1/V2 instead of 10 log P1/P2.

00000PPPPSS!!! OOPS AGAIN!
20 LOG V1/V2 ONLY EQUALS 10 LOG P1/P2
-----IF -----
Z1=Z2

Be Vewwy, Vewy, Caewful.
-Ed Fudd.(Loranger)

--
72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

Date: Wed, 30 Jul 1997 10:16:50 -0700 (PDT)
From: Dana Myers K6JQ <myers@bigboy.West.Sun.COM>
To: qrp-l@lehigh.edu
Subject: [24000] Visit with Chuck in Los Angeles!
Message-ID: <Roam.SIMC.2.0.6.870283010.14449.myers@bigboy>
Content-Type: text

Hey gang,

I sent a message Monday morning that appears to have been lost (perhaps it is because, as a developer, I tried doing some evil and crashed my system before the outbox was sent?). So, here's another try. Chuck Adams, the famous guy from Texas, is here in the Southland. I propose meeting with Chuck for dinner on Thursday (that's tomorrow!). As a tentative choice I've selected the Acapulco restaurant in the Santa Monica Business Park (directly adjacent to the Santa Monica Airport) at 3360 Ocean Park Blvd.

Please send me email if you plan to join us so I can call Acapulco with a reservation if our group gets large enough. If you can't email me, please feel free to call me at the number below.

Dana K6JQ
Dana.Myers@Sun.Com
Dana@Source.Net
(310) 348-6043

Date: Wed, 30 Jul 1997 11:01:18 -0700 (MST)
From: Jack Meadows <jackmead@getnet.com>
To: Ed Loranger <we6w@qsl.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [24001] Re: S units vs DB
Message-ID: <Pine.BSI.3.93.970730105408.13594B-100000@gn2.getnet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 30 Jul 1997, Ed Loranger wrote:

> Jack Meadows wrote:
> >
> > Hi gang, this is always an area of confusion because of our terminology.
> > Just keep in mind that dB is an expression of POWER ratio, and since
> > Power is proportional to the voltage squared, the power ratio of voltages
> > in dB is $20 \log V1/V2$ instead of $10 \log P1/P2$.
>
> 00000PPPPSS!!! OOPS AGAIN!
> $20 \log V1/V2$ ONLY EQUALS $10 \log P1/P2$
> -----IF -----
> $Z1=Z2$
>
> Be Vewwy, Vewy, Caewful.
> -Ed Fudd.(Loranger)

>

Hummmmm....well of course $Z1=Z2$, in this case it's the received signal that is changing, and all else is constant isn't it?

I agree tho...got to make sure we aren't taking measurements at two different points with $Z1$ not equal to $Z2$. Gooooood point!

Or maybe when the load impedance is power dependent, but that is beyond this discussion.

Best regards,
Jack W7QQQ

Date: Wed, 30 Jul 97 10:30:11 PST8
From: rbstalker@CCGATE.HAC.COM
To: qrp-l@lehigh.edu
Subject: [24002] last msg this address
Message-ID: <9706308702.AA870284866@CCGATE.HAC.COM>

Fellow QRP'ers and Friends;
After some 38 years in the aerospace industry it's time for the "big vacation" also known as retirement. This mail address will shut down on Fri 01 Aug. But I will be back as soon as i can get things running at home (a few weeks) QRP-L has been fun as well as educational and I just have to be back for the fall fox hunt. THANKS ALL, BCNU SOON...
W7GVN ROD TUCSON

Date: Wed, 30 Jul 1997 18:10:38 +0100
From: "Brian K. Short" <shortckt@primenet.com>
To: qrp-l@Lehigh.Edu
Subject: [24003] Pacificon?
Message-ID: <3.0.1.32.19970730181038.00741f3c@mailhost.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Do I have this right? Pacificon is sponsored by NorCal and consists of a hamfest, commercial exhibits, forums, symposiums, flea market and live QRP action. Is only QRP gear allowed in the flea market?

To: shortckt@primenet.com
Date: Wed, 30 Jul 1997 10:52:58 -0700
Subject: Re: Who Or What is a Pacificon?
From: wager@juno.com (James W. Cates)

PacifiCon is a hamfest, commercial exhibits, forums and symposiums, flea market, and a lot of QRP action sponsored by NorCal. jim, WA6GER.

Date: Wed, 30 Jul 1997 11:41:11 -0700 (PDT)
From: Dana Myers K6JQ <myers@bigboy.West.Sun.COM>
To: shortckt@primenet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [24004] Re: Pacificon?
Message-ID: <Roam.SIMC.2.0.6.870288071.18458.myers@bigboy>
Content-Type: text

Brian wrote:

> Do I have this right? Pacificon is sponsored by NorCal and consists of
> a hamfest, commercial exhibits, forums, symposiums, flea market and live
> QRP action. Is only QRP gear allowed in the flea market?
>
> ----
> To: shortckt@primenet.com
> Date: Wed, 30 Jul 1997 10:52:58 -0700
> Subject: Re: Who Or What is a Pacificon?
> From: wager@juno.com (James W. Cates)
>
> PacifiCon is a hamfest, commercial exhibits, forums and symposiums, flea
> market, and a lot of QRP action sponsored by NorCal. jim, WA6GER.

I think this parses a little more clearly:

Pacificon is the ARRL Pacific Division Convention, sponsored by the Mount Diablo ARC (of which I was once a member ;-) and featuring a lot of QRP action sponsored by NorCal.

Dana K6JQ
Dana@Source.Net

Date: Wed, 30 Jul 1997 12:10:19 -0700
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: qrp-l@lehigh.edu
Cc: rons@scruznet.com
Subject: [24005] 38S tick mod fix revisited
Message-ID: <33DF919A.6CC2@vdbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If everyone has already done this and I am the last to figure it out, sorry. I figure there must be some others on the list that this stuff is "not so obvious" also.

In trying to do the Tick mod fix on my 38S, I had a very hard time trying to figure out what others had done. In reading and rereading the posted fixes and looking at the board and confusing which end was which on R17 and R19, I finally figured out what was meant and came upon what I found to be a very easy way to fix it without cutting any traces. I will show you with a picture then try to explain it.

Top of Board

```
--[C32]--  
|  
|  |  
4.  R  
7   1  
K   9  
|   |  
|___|
```

With board held upright and looking at it from the top. Unsolder and pull the left lead of C32 up out of the hole. Take a 4.7K resistor and bend one lead at a 90 degree angle. Lay it alongside R19 and solder the bend to the lower lead of R19. Solder the now free left lead of C32 to the top lead of the new 4.7K resistor. Done.

All parts are on the top of the board, no traces cut, looks neat, and takes less than 5 minutes to do.

--

discovered nearby and made themselves known around noon when the heat encouraged a strong aroma (somebody's favorite hunting spot, I guess).

Please respond by e-mail only, as we have two new babies in the house.

Jay Sullivan, KC4WXB
jsulliv@vt.edu

Date: Wed, 30 Jul 1997 12:17:38 -0700 (MST)
From: Bob Hightower <ki7mn@dancris.com>
To: qrp-l@lehigh.edu
Subject: [24007] SD-20 Poles
Message-ID: <199707301917.MAA29008@dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well, the first batch of poles I managed to get out of South Bend went fast. So fast that I ordered some more due to all the requests I got.

So, if you would like one in order to build the SLV, let me know by return e-mail. The price is \$25.00 including shipping to your door in a heavy duty padded tube.

I will reserve a pole for you in the order in which I receive e-mails, up to the max of 24 (all I ordered). Please don't send any money until I let you know, as the last order took nearly a month to get here. This one, I've been told, has already shipped, but I'd rather wait and see.

73,
Bob KI7MN (ki7mn@dancris.com) Chandler, AZ
Grid DM43bi Lat 33.334500 Long -111.87260
NorCal #1221 ARCI #8918 Qrp-l #271 CQC #274 AK QRP #30 ARRL
<http://www.dancris.com/~ki7mn>
WIMPS: QSO's=18 30=18 17=0 12=0 States=15/0/0 DX 0/0/0 QSL's=5

Date: Wed, 30 Jul 1997 13:22:02 -0600
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@Lehigh.EDU, shortckt@primenet.com
Subject: [24008] Re: Pacificon?

Message-ID: <199707301922.NAA04272@zia.aoc.nrao.edu>

I attended PacifiCon last year. It is a large hamfest over 3 days, in which last years attendance was in the order of 5,000 or so. It is held in the Concord Hilton, east of San Francisco. I don't recall who actually sponsors it (sorry), but it is an ARRL regional hamfest with numerous speakers. NorCal sponsors the QRP activities portions, which is an integral part of PacifiCon ... that is, the QRP symposiums and saturday evening building contest are all listed in the official PacifiCon schedule (not just riding on their shirt tails).

There are vendors, presentations and various symposiums on friday, saturday and sunday. The hamfest itself is held on saturday across the street in a shopping center. There are numerous other hotels and restaurants in the area, many within walking distance.

As for the QRP activities, there are talks on both friday and saturday in one or more of the hotel symposium rooms, in conjunction with talks given by others for general interest. Then friday night after dinner, everyone kinda hangs out in one of the rooms until strange hours just yaking about QRP; saturday night after dinner is the building contest, where everyone brings a rig or two. Always a nice show and tell to find out how everyone builds their 38-Specials, SST's, etc. Door prizes and awards for the building contest are awarded at that time. Of course a few of the QRP vendors are there, such as Wilderness Radio, with their QRP kits, some at special pricing.

In short, there's plenty to do with both QRP and the other aspects of ham radio. You'll have a blast.

72, Paul NA5N

Date: Wed, 30 Jul 1997 19:22:20 +0100
From: "Brian K. Short" <shortckt@primenet.com>
To: azqrp@dancris.com
Cc: qrp-1@Lehigh.Edu
Subject: [24009] Re: Pacificon?
Message-ID: <3.0.1.32.19970730192220.00752338@mailhost.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dana (K6JQ) has set me right again (see below). Anyway, I'm not sure what plans were being considered for transportation, but I assume it involved renting a large passenger van (for large passengers) and in

some manner dividing expenses for travel.

I may be interested, but I'm a frugal traveller.

If there is an inexpensive mode of transportation and accomodations can in some way be shared (I have a sleeping bag and just need a shower from time to time)? Please keep me informed.

OBTW, found last year's Pacificon web site and even read a couple of the presentations (Linux and networking related) online.

If the van doesn't work out, perhaps I'd still be interested in a room share situation? I will bring a laptop and modem for internet access...

Planes, Trains, and Automobiles? Wanna Buy Some Shower Curtain Rings?

73, Brian k7on@qsl.net

I think this parses a little more clearly:

Pacificon is the ARRL Pacific Division Convention, sponsored by the Mount Diablo ARC (of which I was once a member ;-)) and featuring a lot of QRP action sponsored by NorCal.

Dana K6JQ
Dana@Source.Net

Brian Short k7on@qsl.net <http://www.qsl.net/k7on>
1994 E Laguna Dr Tempe, Az 85282 (602)839-3484

Date: Wed, 30 Jul 1997 12:27:01 -0700
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: qrp-1@Lehigh.Edu
Subject: [24010] Re: Can anyone explain this -the Sequel
Message-ID: <33DF9585.66C2@vdbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Several folks requested that I post my resolution of this problem. It was suggested to me that L2 might need some turns removed. I removed one turn from it and Voila 10.1Mhz. I can still tune the output frequency somewhat with TC2, but have a nice clean looking signal (on an oscscope not a spectrum analyzer). Haven't had a chance to check it on

the antenna yet but I suspect it will be fine.

--

73 de Jeff AC6KW
grudin@vdbbs.com

QRP-L #16	Private Practice : Companion Animals and
Exotics	
Norcal QRP #1292	Ocean Animal Clinic / Cat Clinic of Santa
Cruz	
	Santa Cruz,
California	

QRP'ers do it with less energy (but lot's of enthusiasm)!

Date: Wed, 30 Jul 1997 12:56:14 -0700 (PDT)
From: John Moriarity <k6qq@SOCAL.WANet.com>
To: britton@axionet.com
Cc: qrp-l@lehigh.edu
Subject: [24011] G4ZPY paddle
Message-ID: <3.0.16.19970730111028.1df791b8@SOCAL.WANet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Brad,

I've had a G4ZPY paddle for over a year. I'm very satisfied with it, although I agree it is a bit pricey. Its feel is a little soft (compared to my Viproplex Iambic paddle, which is very "crisp") but I have no trouble sending with it at reasonable speeds (25-30 wpm). The only problem is shared with other small keys, keeping it in place while in use. The base is magnetic, and if you have something of steel to snap it to, that works fine. He also includes a strip of Velcro to hold it to your leg, but I don't find that very useful. Frequently I just hold it down with my left hand while sending with my right.

All in all, I enjoy it a lot, and have used it both at home and in the field. If nothing else, it sure is pretty to look at!

72,

John, K6QQ

Date: Wed, 30 Jul 1997 19:50:56 +0000
From: Sandy W5TVW <ebjr@worldnet.att.net>
To: hynde@flash.net, qrp-1@Lehigh.Edu
Subject: [24012] Re: S units vs DB (long)
Message-ID: <19970730195054.AAA27205@LOCALNAME>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:36 PM 7/30/97 +0000, you wrote:

>Sandy W5TVW wrote:

>

>>

>> Here one must be careful! The "S" meter is calibrated to
indicate 6db

>> VOLTAGE change per "S" unit. A 6 db POWER change is not the same!

>> The rule of thumb is:

>> For a 3 db power increase the power is doubled.

>> For a 6 db VOLTAGE increase the VOLTAGE is doubled.

>>

>> The inverse is true if the power/voltage is halved.

>

>Well, almost, Im ok with the power vs voltage. Im missing the conversion
>from watts out to recieved voltage.

>

>Doubling the power from 50 watts to 100 watts is 3db power, doubled

>again to 200 is 6 db of power change. Now, what is the relationship to
>the voltage change at the receiver?

>

>Im sure its right in front of me but I cant make the connection.

>

>Tim

The actual voltage you see will depend on what the "load impedance" the signal is looking into. Also we must take into account losses via the propagation medium, distance of receiver from transmitter plus or minus antenna gains etc. This is calculated as the "Link Budget" for satellite communications circuits when determining the power level/antenna gain/receiver sensitivity/etc. needed for a successful circuit. "Absolute db" levels are usually based on some 'reference level and impedance' the load presents to the generator. Relatively, the 6 db power change will translate into a 12 db. voltage change.

You will see such things as: 0 db=1 mw across 600 ohms in audio work. If a receiver level is specified in "dbm", it is generally referenced to '0dbm=1 mw

across 50 ohms'. Low levels into the single figure 'microvolt' region are NEGATIVE dbm. values. A receiver sensitivity value stated in 'dbm.' is more precise than one specified as "so many microvolts for 10 db S/N+N, or 50 mw. output, etc." It is much more absolute and takes most errors in test setup/equipment out of the "measurement" equation. This is a reason you see it used so much in UHF/microwave gear specifications. Dealing in 'dbm' also simplifies antenna gain/"space" loss/transmission line loss/etc. when dealing with things like satellite systems, where the "Link budget" has to be calculated.

Us old fashioned hams are more used to using "microvolts" and accepting whatever errors creep in as they frequently don't have much effect in an HF radio circuit as other factors like atmospheric and propagation.

A very good presentation of the 'decibel' can be found in the following books:

Radiotron Designer's Handbook- 4th edition-F. Langford Smith pp 806-823.

Radio Physics Course-2nd Edition-A. H. Ghirardi pp 623-627.

73,

Date: Wed, 30 Jul 1997 16:00:55 EDT
From: wb2vuo@juno.com (William K Hibbert)
To: qrp-1@Lehigh.Edu
Subject: [24013] Joe Spenser, KK5NA; Mail Bouncing
Message-ID: <19970730.160007.2063.3.wb2vuo@juno.com>

Sorry to go to the whole list, but all my replies to Joe, KK5NA are bouncing as "User Unknown"

Please contact me directly about the TV camera, with your correct Email address. The "Return" button doesn't work...

72/73, Keith, WB2VUO

Date: Wed, 30 Jul 1997 13:38:12 -0700
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [24014] Re: Pacificon?
Message-ID: <33DFA634.2869@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Perhaps this parses the Clearest:

Pacificon:It's another wonderful, organized HAM gathering
I wish I could go to!

But can't.

What's with all these Bills in my Mailbox....
No Bill lives here. Toss 'em out dear!

-Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)
HW-8;OHR-100, Pixie2, Johnson Viking II w/VF0.
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

Date: Wed, 30 Jul 1997 13:46:23 -0700
From: Ed Loranger <we6w@qsl.net>
To: ebj@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [24015] Re: S units vs DB (long)
Message-ID: <33DFA81F.6440@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sandy W5TVW <ebj@worldnet.att.net> wrote:

You will see such things as: 0 db=1 mw across 600 ohms in audio
work.
If a receiver level is specified in "dbm", it is generally referenced to
'0dbm=1 mw
across 50 ohms'.

I know this is splitting hairs but it is impossible
to have ANY wattage 'Across' anything. Wattage is
'Dissipated'.

Voltage Across, Current Through, Power Dissipated.

0 dBm is 1 mW regardless of the Load.
0 dBV is typically 1 Volt across 600 Ohm.

Is this a clearer explanation?

74/Ed

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)
HW-8;OHR-100, Pixie2, Johnson Viking II w/VF0.
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

Date: Wed, 30 Jul 1997 16:31:54 -0400
From: "Dean Marzocca" <n2tnn@ifu.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [24016] BB reflections
Message-ID: <199707302033.QAA19277@ifu.ifu.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi all,

Just a final thought on the BB test. I have read all the postings about this event and am inspired by the variety of locations and elevations. Some have climbed rock hills, mountains, deserts and parts unknown. Some had fought off dangerous wx, big wind, rain, lightening etc.

My location which I forgot to mention was 2 feet above sea level, sun and wind.

The view was also on the FB side, foggy glass once in a while but I could still see the paddles.....

Also, disregard my posted score. Brain warp when it was calculated. Russ will tell me what it really is when he adds them all up.

72/73 Dean N2TNN NJ
n2tnn@ifu.net

Date: Thu, 31 Jul 1997 00:16:16 +0200 (EET)
From: "Arjen Raateland, FEI/Impacts Research" <Arjen.Raateland@vyh.fi>
To: k6qq@SOCAL.WANet.com

Cc: qrp-1@Lehigh.Edu
Subject: [24017] Re: G4ZPY paddle
Message-ID: <01ILV8A6E58K8Y9EF1@vyh21.vyh.fi>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

> I've had a G4ZPY paddle for over a year. I'm very satisfied with it,
> although I agree it is a bit pricey. Its feel is a little soft (compared
> to my Viproplex Iambic paddle, which is very "crisp") but I have no trouble
> sending with it at reasonable speeds (25-30 wpm). The only problem is
> shared with other small keys, keeping it in place while in use. The base
> is magnetic, and if you have something of steel to snap it to, that works
> fine. He also includes a strip of Velcro to hold it to your leg, but I
> don't find that very useful. Frequently I just hold it down with my left
> hand while sending with my right.

I suppose the miniature paddles are meant - G4ZPY makes a range of
keys and paddles. My miniature paddles from G4ZPY came with a piece of
metal stuck to the magnet.

I have used this piece of metal sheet to fix the key to non-metallic
surfaces like table tops.

Just stick the square piece of metal sheet to the table top with a few
(4) pieces of blue tack (?). Press hard to flatten the blue tack.
Stick the magnetic base of the key to the metal square. One can also
use thin tape to fix the metal square to the table top. The magnet
will still hold the key down through the tape.

> John, K6QQ

73, OH2ZAZ
Arjen Raateland
--... --... --... --... --... --... --... --... --...
Finnish Environment Institute, Helsinki, Finland
SAS Support
EMAIL: Arjen.Raateland@vyh.fi
.-.-.-.-

Date: Wed, 30 Jul 1997 14:27:00 -0500
From: Bob Tellefsen-CNSE97 <Bob_Tellefsen-CNSE97@email.mot.com>
To: qrp-1@Lehigh.Edu
Subject: [24018] Chasing the Elusive Bumblebee
Message-ID: <M1979868.002.5itf1.1.970730213915Z.CC-MAIL*/OU=LMPCC4/OU=ILBB/

PRMD=MOT/ADMD=MOT/C=US/@MHS>

I had forgotten the FOBB was Sunday, but fortunately had the receiver on 7040 and heard a few weak signals. Reminded me to get going, only 45 minutes late.

Operated from my home station with my QRP+ and DSP filter. Gave ol' Kenwood the day off. Antenna was my 40m diamond loop.

I found band conditions to be very thin. Worked a total of 18 QSOs, including 7 BB. A whopping total of 378 points. Somehow not as impressive as those contests with lots of multipliers and scores in the thousands :-)

I owe an apology to several stations. Without thinking, I tacked BB at the end of a CQ, like we sometimes do with FD during Field Day. I seem to have given the impression I was a BB, which I wasn't. I hope this hasn't screwed up too many scores.

Oh, well, it was fun and a learning experience.

I have a related question. I found myself consistently giving much lower reports than I was receiving. Some even gave me reports of 599, "just thumping in here". But not at my end. Anyone else have this experience?

Now, what new mischief can we get into?

72 to all,

Bob N6WG

Date: Wed, 30 Jul 1997 15:03:25 -0700
From: Ed Loranger <we6w@qsl.net>
To: Bob_Tellefsen-CNSE97@email.mot.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [24019] Re: Chasing the Elusive Bumblebee
Message-ID: <33DFBA2D.4F84@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bob Tellefsen-CNSE97 wrote:

> I have a related question. I found myself consistently giving much lower
> reports than I was receiving. Some even gave me reports of 599, "just thumping
> in here". But not at my end. Anyone else have this experience?

You Bet Bob! Someone gave me a 589 and sent it four times.

I was hosed. Couldn't hardly hear the stations. Maybe a 329 or something. 329/589??? Probably some one-way NVIS/ground-wave comm-link. -HI!

GREAT EVENT!!!

-Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.

QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok

mailto:we6w@qsl.net <http://www.qsl.net/we6w>

Date: Wed, 30 Jul 1997 18:25:00 -0400

From: Dan Wolfe <n4roa@mounet.com>

To: "'Low Power Amateur Radio Discussion'" <qrp-1@lehigh.edu>

Subject: [24020] Another "Plight of the Bumblebee"

Message-ID: <01BC9D16.060A2220@pm122.mounet.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Howdy to All,

I have been reading the posts on the Bumblebee event with much interest. All during the event, I thought I was the only one having to overcome such

horrible obsticals as I have seen posted. The adventure of the event has made it a "keeper" in my book even if you do not make a contact.

My day started much the same as most others. Got everything packed and took off for my particular spot in the wild jungle. My spot was an old Fire Tower on Clinch Mountain and to get there, I had to travel an old logging road. If all went well, I would drive most of the way then hike a short distance.

I'm now on the logging road and about 1 mile into my journey. As I round a curve, the first obstacle comes into view. A nice log that was blown down by a storm early Sunday morning. I only have a small bow saw with me which is not nearly enough to clear my way. Oh well, give it a try anyway. The log is about 12 inches through and my saw will take care of about 4 of that. Saw around the log as much as I can but it won't break.

Back to the vehicle to see what I can find to help out the situation. Wait! here is a 9/16" wrench and a screwdriver. That should do it. I think I have

outsmarted the log. I will just make another cut with my saw beside the other and use the wrench and screwdriver to chisel out the wood. This worked fine and after only 35 minutes and half gallon of sweat, I managed to use a large tree branch to lever the log to the side of the road.

On towards the top, park, and on to the Fire Tower. Hastily remove antennas from pack and start to get them suspended in the trees. Tie a rock to some nylon string and hurl the rock up only 5 times before success. Tie one end of string to antenna. OK, stretch out the antenna and affix coax. Hey! There is a string hanging up in the tree. Oops, forgot to anchor the other end of the string. Oh well, start over(mumble,mumble,mumble).

Finally on the air and only 15 minutes late. Not bad for what I have been through. First contact, N4TN, a friend of mine in Tn. followed by a host of other friendly operators. This has turned into a day I will never forget. Thanks to all for the adventurous day and so much fun. It could only happen in QRP. I hope we can have another one, anyway, I am looking forward to it.

73/72 de Bumblebee #32

Date: Wed, 30 Jul 1997 17:46:15 -0500 (CDT)
From: KG0ZT <pugrad@millcomm.com>
To: "QRP-L --> Post to list" <QRP-L@lehigh.edu>
Subject: [24021] Bumblebee # 47 Overcomes "Murphy" (long)
Message-ID: <Pine.GS0.3.95.970730174414.27931B-100000@midas.millcomm.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

How can "Murphy" be in so many places at the same time? Like so many other QRP'ers, he came to visit me this past weekend trying his best to ground Bumblebee # 47, Dave - KG0ZT. But this Bumblebee won... or at least partially won.

The QRP 'hive' for this Bumblebee was a hilltop in a local apple orchard in southeastern Minnesota near Rochester (home of the Mayo Clinic). I had planned to erect the New England 20-30 Antenna Mast on Saturday evening and put up a fan inverted vee

using the PVC Gusher II setup. But Murphy had other plans... at 6 pm the XYL (KB0YAE) called from a local supermarket saying her vehicle would not start. Much later after replacing the battery, in the parking lot, it was dark and the antenna party was history... Murphy won that round.

Not to worry, just go out earlier on Sunday. Murphy and company again visit... have to wait for the rain to stop Sunday morning.

Yes... a break in the rain... off to the orchard. We, XYL and I, get the antenna up and I turn on the rig... lots of signals on 20 meters but heavy QRN and quick signal fading. I've missed the first 50 minutes but I'm airborne. Four quick contacts... this is going to be fun!! Murphy returns yet again... rain drops, lightning, then monsoon. We grab the electronics, cover the end of the coax and retreat down the hill to the vehicle. This is no brief shower.

Two hours later the rain and a couple of possible funnel clouds move out and we go back up the hill with electronics in hand. Still same bad band conditions but again wall to wall signals on 20 meters. Immediate success... tough to keep a determined Bumblebee grounded.

I was only able to "log" 1 hour and 15 minutes of air time, but made 15 contacts, all on 20 meters, which included 12 different states (AR, CO, GA, IN, LA, MI, MO, MT, NJ, OH, OK, TX), and 5 other Bumblebees.

Score calculation for 75 minutes of operating time:

$(15 \text{ QS0s} \times 2 \text{ pts/QS0}) \times (5 \text{ BBs} \times 3 \text{ pts/BB}) = 450 \text{ points total}$

Rig was a Ten Tec Scout at 5 watts (checked with an OHR WM-1). I had hoped to work (try) 40 m, 15 m, and 10 m also. Had wires for them. But with very limited operating time... stayed on 20 m as it was 'hot'.

I've made-up a special QSL card for this event which I'll be mailing out soon.

Thanks to all of you who participated. I now know what it's like to be on the receiving end of a pile-up!! A special thanks to The Adventure Radio Society and to Russ, AA7QU, for his coordination efforts... no simple task!

I look forward to the '98 Flight of the Bumblebees... and Russ if you're accepting inputs... put me down again as a Bumblebee if

repeats are allowed.

72 to all Dave - KG0ZT

```
*****
*
* 72 / 73 KG0ZT Dave Cary Rochester, MN
* ARRL VE QRP-L # 979
*
* pugrad@millcomm.com
*
*****
```

Date: Wed, 30 Jul 97 15:53:00 PDT
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
To: qrp-1@Lehigh.Edu
Subject: [24022] 4:1 baluns and high SWRs

Somebody was having trouble using a 40m loop on other bands with ladder-line and a 4:1 balun. Conceptually, it is like the problem I ran into while trying to improve on the standard G5RV. The balanced output on unbalanced antenna tuners will work well with a resonant folded dipole but when the antenna is a non-resonant length, the SWR on ladder-line can go very high. The ladder-line handles high SWRs quite well but the 4:1 balun doesn't. There is usually no impedance on a high SWR circle that is a reasonable match for a 4:1 balun.

QRPers, in particular, may suffer from this configuration because even though the percentage loss is high, not much heating occurs because of the low power level. With QRO, high percentage loss means something starts smoking.

With a high SWR on 450 ohm ladder-line, the ONE impedance guaranteed NOT to occur anywhere in the system IS 450 ohms.

Anybody using a 4/6/9:1 voltage balun with a non-resonant length antenna should check out my new web page at:

<http://www.geocities.com/CapeCanaveral/8476/wrong.htm>

73, Cecil, W6RCA, 00TC

Date: Wed, 30 Jul 1997 15:56:05 -0700
From: Ed Loranger <we6w@qsl.net>
To: n4roa@mounet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [24023] Re: Another "Plight of the Bumblebee"
Message-ID: <33DFC685.7FFA@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

All Right! Since Lorraine and others have been so forthright sharing their hair-raising, I mean antenna-raising experiences, I'd better share my very first (about 2 weeks ago) antenna/tree antenna-hanging experience. (I gotta get another hyphen in here somewhere :)

Didn't have a slingshot but saw someone use a fishing pole once back in 1985 to sling fish-wire over a tree to pull up and eventually hang a dipole antenna.

I was very casual. (My QTH). Selected my trout pole and one small fishing weight. After correcting for the wind, a second weight was used. Couldn't really get the top of the tree and after finally succumbing to the tiring remarks across the street, "Hey! Looks like you caught a big on!" -- I decided 35 feet was good enough.

Ok. On to the second tree. I'll get a snap swivel over it and just pull the middle of the string over and tie it off. Well, the string twisted in the middle and wrapped all up in the fishing line. NOTE: Don't expect a large snap-swivel to S-L-I-D-E along the string! In order to get the string off the top of the tree to try again, I set down the pole and went over to pull it back. Finally got the thing down. Ok, I cut the string and with the end now firmly attached attempted to pull it up.

BUT WHERE's my Fishing pole? I looked around suspiciously at the neighbor kids. No-one nearby. Oh. How'd it get way up there in the tree? NOTE: Always loosen the drag on the reel before pulling the string from the other end.

Finally got the pole down using the fireman's technique. My embarrassed Son, Dale (14 yrs) held the ladder straight vertically as I climbed up. After eating some tree sap when

I discovered he hadn't practiced this maneuver, I decided to use the broken branch to help steady myself.

Now I have a piece of string from tree to tree that supports the center of my dipole.

And it sure is beautiful.

I now own a slingshot.

-Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.

QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok

mailto:we6w@qsl.net <http://www.qsl.net/we6w>

End of QRP-L Digest 803
